Foglight® Experience Viewer Quick Installation Guide

For Dell PowerEdge™ 2950 III

Pre-Installation Check List

Ensure you have the following items before installing Foglight Experience Viewer (FxV):

Hardware:

- ☐ **FxV appliance (Dell PowerEdge™ 2950 III)**
- ☐ **PowerEdge rack–mounting hardware**—included with the appliance; required to install the appliance in the server rack
- ☐ **Rack installation instructions**—the *Rack Installation Guide* or *Rack Installation Instructions* document included with the appliance
- ☐ **Network cables**—two cables required to connect the FxV appliance, including the Dell Remote Access Controller (DRAC), to the network via the private switch
- ☐ **Crossover cable**—this may be a true crossover cable or a straight network cable; both types can be used to connect FxV and FxM appliances
- ☐ **Power cable**—included with the appliance
- ☐ **USB keyboard**—required during the configuration process
- ☐ **VGA monitor**—required during the configuration process

Network Information:

- ☐ **DRAC IP address**—the IP address used to access the DRAC; must be part of the intranet subnet
- ☐ **Control port (eth0/Gb1) IP address**—the IP address used by end-users and administrators to access the FxV appliance; must be part of the intranet subnet
- ☐ **Data capture port (eth1/Gb2) IP address**—the IP address used for transferring hit data from the FxM appliance; must be part of the private capture subnet
- ☐ **Domain Name**—the name of the DNS domain that the appliance should join
- ☐ **Primary DNS (Domain Name System) IP address**—the IP address of the primary DNS server which allows the FxV appliance to perform DNS lookups
- ☐ **Secondary DNS IP address**—if available
- ☐ **Gateway IP address**—the IP address of your network's gateway
- ☐ **NTP (Network Time Protocol) server IP address**—the IP address of your network's NTP server

Note: The *FxV Quick Installation Guide* is intended for use with configurations consisting of a single FxM Dell PowerEdge™ 2950 III appliance and a single FxV Dell PowerEdge™ 2950 III appliance. For more complex installations, refer to the *FxV Installation and Administration Guide*, available on Quest Software's SupportLink at: **http://support.quest.com/**.

INSTALL > **CONNECT** > **CONFIGURE**

Unpack and Install the Appliance

If the box is damaged, or any parts are missing, contact Quest Software's SupportLink.

For directions on how to install the system into your network rack, refer to the *Rack Installation Guide*, included with the FxV appliance.

INSTALL > **CONNECT** > **CONFIGURE**

Step 1: Connect the Power, Keyboard, and Monitor

Attach the power, keyboard, and monitor cables to the appropriate ports on the rear panel of the appliance. **Do not power up** the FxV appliance until all cables are attached. The keyboard and monitor connections are not necessary during the regular use of the FxV appliance, but they are required for this part of the installation.

Step 2: Connect the FxM Appliance to the Network

For directions on how to connect the FxM appliance to the network, refer to the *Foglight Experience Monitor Installation and Administration Guide*, available on Quest Software's SupportLink.

Step 3: Connect the FxV Appliance to the Network

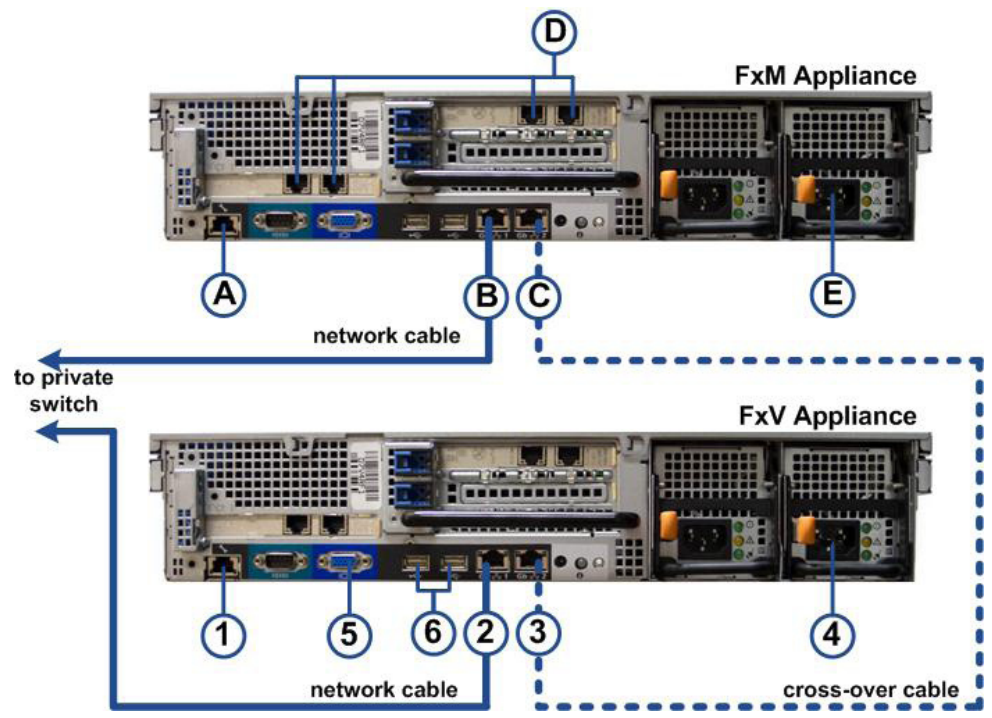
Using one of the network cables, connect the FxV DRAC port to the private switch (any available Intranet port). This connection allows you to log in to the FxV appliance from a remote machine and access the setup menu (after the remote access software is configured).

Using the second network cable, connect the FxV control port (labelled eth0/Gb1) to the private switch (any available Intranet port). This connection allows network access to the FxV browser interface and setup menu.

Using the crossover cable, connect the FxM data port (labelled eth1/Gb2) to the FxV data capture port (labelled eth1/Gb2). This allows the FxM Collector to send specific captured data (hits) for archiving on the FxV.

Step 4: Configuring the FxV Appliance for Remote Access

Power on the FxV appliance. During the initialization sequence, when prompted to configure the remote access, press **CTRL+E** within five seconds from the message being displayed. Assign an IP address to the DRAC port and a Gateway IP address, then save your settings and allow the appliance to finish booting normally. The remainder or the installation can be completed from a remote machine. For more information about this remote access feature, refer to the *FxV Dell Remote Access Controller Field Guide*, available on Quest Software's SupportLink.

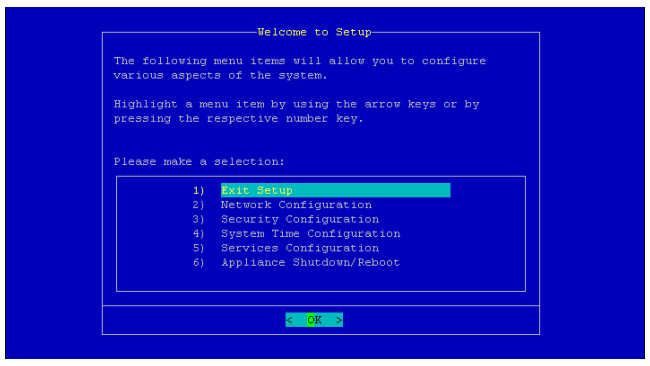


FxM Appliance:
A—DRAC port
B—Control port (eth0/Gb1)
C—Data port (eth1/Gb2)
D—Monitoring ports (actual port locations may vary)
E—Power socket

FxV Appliance:
1—DRAC port
2—Control port (eth0/Gb1)
3—Data capture port (eth1/Gb2)
4—Power socket
5—VGA port
6—USB ports (for keyboard and encryption flash drive)

INSTALL > **CONNECT** > **CONFIGURE**

Step 1: Log in to the FxV Setup Menu

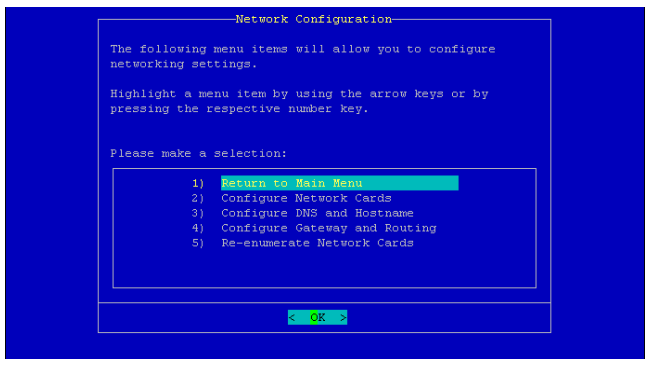

Welcome to Setup
The following menu items will allow you to configure various aspects of the system.
Highlight a menu item by using the arrow keys or by pressing the respective number key.
Please make a selection:
1) Exit Setup
2) Network Configuration
3) Security Configuration
4) System Time Configuration
5) Services Configuration
6) Appliance Shutdown/Reboot
< OK >

Use the FxV appliance setup menu to perform the low-level configuration of this appliance. A monitor and a keyboard must be already connected to the appliance (unless you are connected remotely via DRAC).

Power on the appliance (if it is powered off). When the boot-up sequence is completed, the FxV setup menu login screen appears.

At the login prompt, enter **setup** as the login ID and **setup** as the password. The *Welcome to Setup* screen appears.

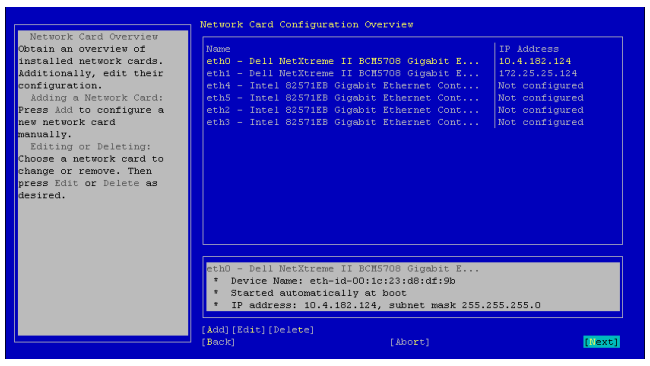
Step 2: Access the Network Configuration Menu


Network Configuration
The following menu items will allow you to configure networking settings.
Highlight a menu item by using the arrow keys or by pressing the respective number key.
Please make a selection:
1) Return to Main Menu
2) Configure Network Cards
3) Configure DNS and Hostname
4) Configure Gateway and Routing
5) Re-enumerate Network Cards
< OK >

In the *Welcome to Setup* screen, press the **2** key to highlight the *Network Configuration* option, then press the **Enter** key.

In the *Network Configuration* screen, press the **2** key to highlight *Configure Network Cards*, then press the **Enter** key. The *Network Card Configuration Overview* screen appears.

Step 3: Select the Ports to Configure


Network Card Overview
Obtain an overview of installed network cards. Additionally, edit their configuration.
Adding a Network Card:
Press Add to configure a new network card manually.
Editing or Deleting:
Choose a network card to change or remove. Then press Edit or Delete as desired.
Network Card Configuration Overview
Name
IP Address
eth0 - Dell NetXtreme II BCM5708 Gigabit E... 10.4.182.124
eth1 - Dell NetXtreme II BCM5708 Gigabit E... 172.25.25.124
eth4 - Intel 82571EB Gigabit Ethernet Cont... Not configured
eth5 - Intel 82571EB Gigabit Ethernet Cont... Not configured
eth2 - Intel 82571EB Gigabit Ethernet Cont... Not configured
eth3 - Intel 82571EB Gigabit Ethernet Cont... Not configured
eth0 - Dell NetXtreme II BCM5708 Gigabit E...
* Device Name: eth-id-00:1c:23:d8:df:9b
* Started automatically at boot
* IP address: 10.4.182.124, subnet mask 255.255.255.0
[Add] [Edit] [Delete]
[Back]
[Abort]
[Next]

The *Network Card Configuration Overview* screen lists all network cards detected on the appliance and their correspondent Ethernet ports. An FxV appliance typically has six Ethernet ports; they are listed in the interface *Name* column (eth0 to eth5).

To configure the FxV appliance for Server/Archiver you must assign an IP address to the following ports (see instructions in **Step 4**):

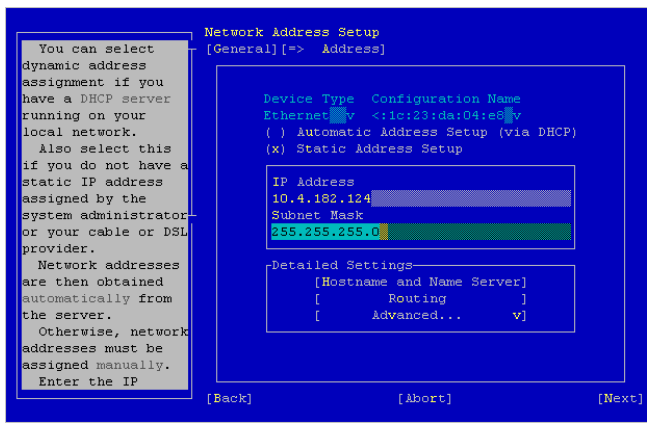
- Define an IP address as part of the intranet subnet (for example, 10.10.11.x), for configuration/search/replay. Assign it to the control port (labeled **eth0/Gb1**) that is connected to the private switch, and is used to connect to the FxV browser interface. It corresponds to the **eth0** interface on the list.
- Define an IP address as part of the private capture subnet (for example, 192.168.11.x). Assign it to the data capture port (labeled **eth1/Gb2**) that is connected to the FxM, and is used for transmitting hit data from the FxM. It corresponds to the **eth1** interface on the list.

Use the **Tab** key to navigate to the *Name/IP Address* pane, then the arrow keys to highlight the network card designated for **eth0**. Press **Alt+I** to edit the selected option. The *Network Address Setup* screen for the selected card appears.

For future reference, write the FxV IP addresses in the space provided here:

Control Port IP Address (FxV Server/eth0/Gb1): _____
Data Capture Port IP Address (FxV Archiver/eth1/Gb2): _____
DRAC Port IP Address: _____

Step 4: Configure the Appliance Ports


Network Address Setup
[General][=> Address]
You can select dynamic address assignment if you have a DHCP server running on your local network.
Also select this if you do not have a static IP address assigned by the system administrator or your cable or DSL provider.
Network addresses are then obtained automatically from the server.
Otherwise, network addresses must be assigned manually.
Enter the IP
Device Type Configuration Name
Ethernet <:1c:23:da:04:e8>
( ) Automatic Address Setup (via DHCP)
(x) Static Address Setup
IP Address
10.4.182.124
Subnet Mask
255.255.255.0
Detailed Settings
[Hostname and Name Server]
[Routing]
[Advanced...]
[Back]
[Abort]
[Next]

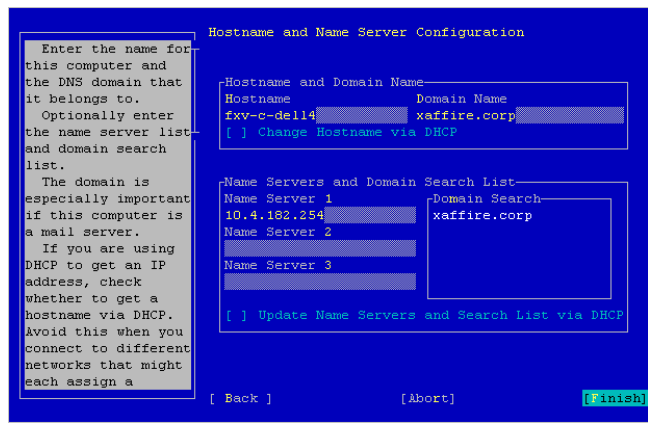
In the *Network Address Setup* screen, use the **Tab** key to highlight the appropriate fields. Configure port **eth0/Gb1**, by editing the IP address of the **eth0** interface as the Server address.

Select *Static Address Setup* as the method to setup the IP addresses. Enter an *IP Address* and *Subnet Mask*.

Press **Alt+N** to return to the *Network Card Configuration Overview*. Repeat instructions presented in this step, to configure port **eth1/Gb2** (edit the IP address of the **eth1** interface as the Archiver address).

Press **Alt+N** to return to the *Network Configuration* screen.

Step 5: Set the Hostname and DNS Servers

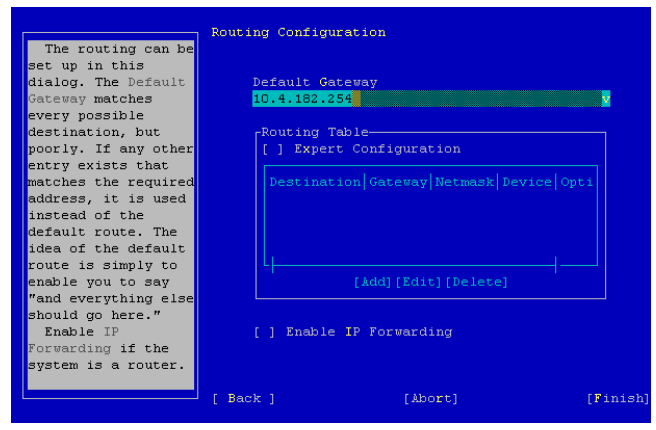

Hostname and Name Server Configuration
Enter the name for this computer and the DNS domain that it belongs to.
Optionally enter the name server list and domain search list.
The domain is especially important if this computer is a mail server.
If you are using DHCP to get an IP address, check whether to get a hostname via DHCP. Avoid this when you connect to different networks that might each assign a
Hostname and Domain Name
Hostname
Domain Name
fxv-c-dell4
xaffire.corp
[ ] Change Hostname via DHCP
Name Servers and Domain Search List
Name Server 1
10.4.182.254
Name Server 2
Name Server 3
Domain Search
xaffire.corp
[ ] Update Name Servers and Search List via DHCP
[Back]
[Abort]
[Finish]

In the *Network Configuration* screen, press the **3** key to highlight the *Configure DNS and Hostname* option, then press the **Enter** key. The *Hostname and Name Server Configuration* screen appears.

Use the **Tab** key to highlight the appropriate fields, and supply a *Hostname* and *Domain Name*. Enter an IP address for at least the primary *Name Server* on your network and (optionally) enter the domain name again in the *Domain Search* box.

Press **Alt+F** to finish and return to the *Network Configuration* screen.

Step 6: Configure the Gateway and Routing

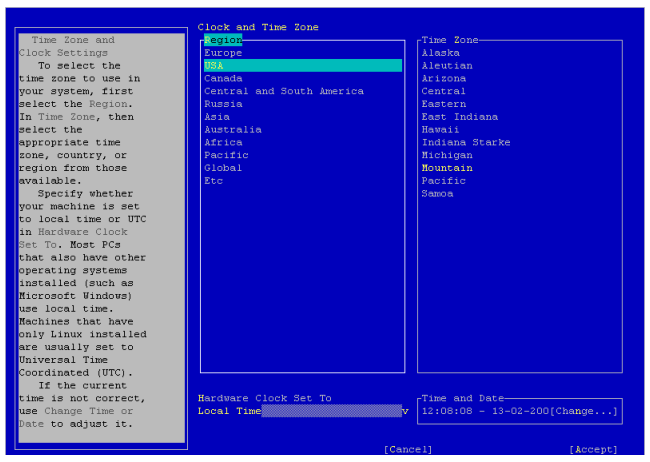

Routing Configuration
The routing can be set up in this dialog. The Default Gateway matches every possible destination, but poorly. If any other entry exists that matches the required address, it is used instead of the default route. The idea of the default route is simply to enable you to say "and everything else should go here."
Enable IP Forwarding if the system is a router.
Default Gateway
10.4.182.254
Routing Table
[ ] Expert Configuration
Destination Gateway Netmask Device Opti
[Add] [Edit] [Delete]
[ ] Enable IP Forwarding
[Back]
[Abort]
[Finish]

In the *Network Configuration* screen, press the **4** key to highlight the *Configure Gateway and Routing* option, then press the **Enter** key. The *Routing Configuration* screen appears.

In the *Default Gateway* field, enter the IP address of your network's gateway.

Press **Alt+F** to finish and return to the *Network Configuration* screen. From here, return to the main menu.

Step 7: Configure the System Time


Clock and Time Zone
Time Zone and Clock Settings
To select the time zone to use in your system, first select the Region. In Time Zone, then select the appropriate time zone, country, or region from those available.
Specify whether your machine is set to local time or UTC in Hardware Clock Set To. Most PCs that also have other operating systems installed (such as Microsoft Windows) use local time. Machines that have only Linux installed are usually set to Universal Time Coordinated (UTC).
If the current time is not correct, use Change Time or Date to adjust it.
Region
Europe
USA
Canada
Central and South America
Russia
Asia
Australia
Africa
Pacific
Global
Etc
Time Zone
Alaska
Aleutian
Arizona
Central
Eastern
East Indiana
Hawaii
Indiana Starke
Michigan
Mountain
Pacific
Samoa
Hardware Clock Set To
Local Time
Time and Date
12:08:08 - 13-02-200[Change...]
[Cancel]
[Accept]

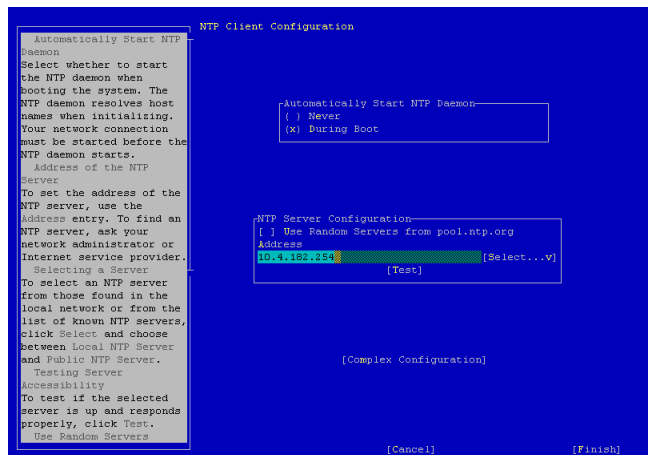
In the *Welcome to Setup* screen, press the **4** key to highlight the *System Time Configuration* option, then press the **Enter** key. The *System Time Configuration* screen appears.

Press the **2** key to highlight the *Configure Date, Time, Timezone* option, then press the **Enter** key. The *Clock and Time Zone* screen appears.

Use the **Tab** key to select the fields to configure. Select the correct *Region* and *Time Zone* for the appliance, and set the Hardware Clock to Local Time (default). Correct the Time and Date, if required.

When you have finished, press **Alt+A** to accept the changes and return to the *System Time Configuration* screen.

Step 8: Configure NTP Client

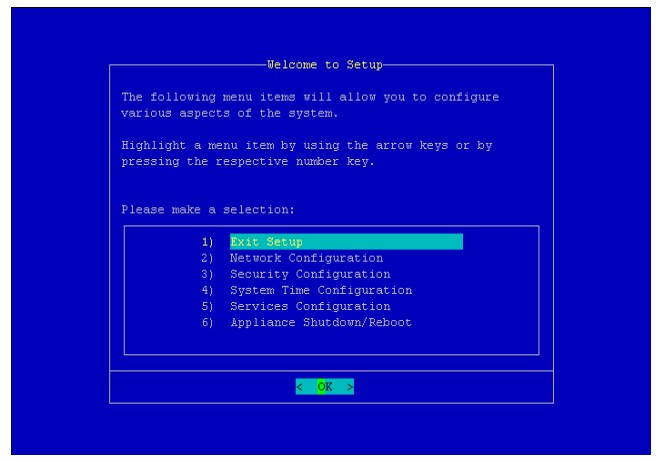

NTP Client Configuration
Automatically Start NTP Daemon
Select whether to start the NTP daemon when booting the system. The NTP daemon resolves host names when initializing. Your network connection must be started before the NTP daemon starts.
Address of the NTP Server
To set the address of the NTP server, use the Address entry. To find an NTP server, ask your network administrator or Internet service provider.
Selecting a Server
To select an NTP server from those found in the local network or from the list of known NTP servers, click Select and choose between Local NTP Server and Public NTP Server.
Testing Server Accessibility
To test if the selected server is up and responds properly, click Test.
Use Random Servers
Automatically Start NTP Daemon
( ) Never
(x) During Boot
NTP Server Configuration
[ ] Use Random Servers from pool.ntp.org
Address
10.4.182.254
[Select...]
[Test]
[Complex Configuration]
[Cancel]
[Finish]

In the *System Time Configuration* screen, press the **3** key to highlight the *Configure NTP Client* option, then press the **Enter** key. The *NTP Client Configuration* screen appears.

Ensure that *During Boot* is selected for the *Automatically Start NTP Daemon* option. Enter an IP address for the NTP server, or select it from a list of local or public servers.

When you have entered the configuration information, press **Alt+F** to finish and return to the *System Time Configuration* screen. From here, return to the main menu.

Step 9: Reboot the Appliance


Welcome to Setup
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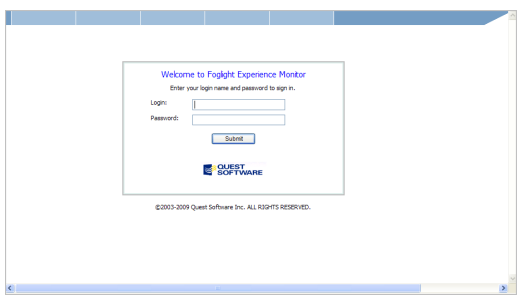
Please make a selection:
1) Exit Setup
2) Network Configuration
3) Security Configuration
4) System Time Configuration
5) Services Configuration
6) Appliance Shutdown/Reboot
< OK >

Optionally, configure full disk encryption. For directions on how to configure the encryption, refer to the *FxV Installation and Administration Guide*, available on Quest Software's SupportLink.

Reboot the FxV appliance. In the main menu, press the **6** key to highlight the *Appliance Shutdown/Reboot* option, then press the **Enter** key. The *Appliance Shutdown/Reboot* screen appears.

Press the **2** key to select the *Reboot Appliance* option, then press the **Enter** key to execute this command.

Step 10: Log in to the FxM Browser Interface



In a Web browser, enter the FxM appliance IP address (defined when you first set up the appliance). The FxM browser interface login screen appears.

Enter **admin** as the login ID, and **admin** as the password.

On the menu bar, click **Configure > Appliance > FxV**. The *FxV* configuration page appears.

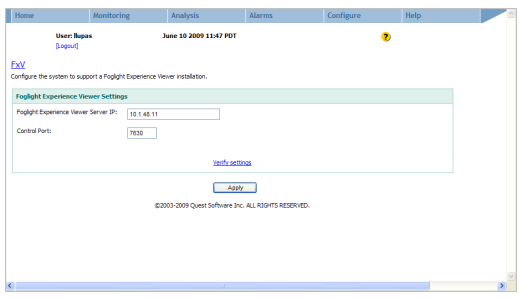
Step 14: Log in to the FxV Browser Interface

In a Web browser, enter the FxV Server URL, **http://<IP address>:7630/console**, using the IP address that you configured for eth0 in the Connect section. The FxV browser interface login screen appears.

Enter **admin** as the login ID, and **admin** as the password. Read and accept the terms of the Transaction Product Agreement.

On the menu bar, click **Configure > Collectors**. The *Collectors* page appears.

Step 11: Enable Collector

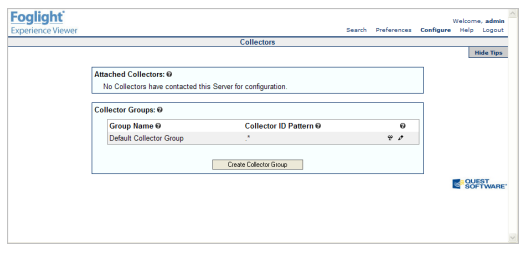


In the *FxV* page, enter the IP address that you assigned to the FxV Server (in the Connect section). The Control port must be set to 7630.

Use the *Verify settings* option to ensure the appliances can communicate with each other.

Click **Apply**. The FxM appliance begins communicating with the FxV appliance. The latter requires more configuration before HTTP traffic can be sent.

Step 15: Configure Collector Group for FxM Collector and FxV Archiver



This configuration page indicates that a Collector (the FxM) is communicating with the FxV Archiver. By default, a Collector maps to the *Default Collector Group*.

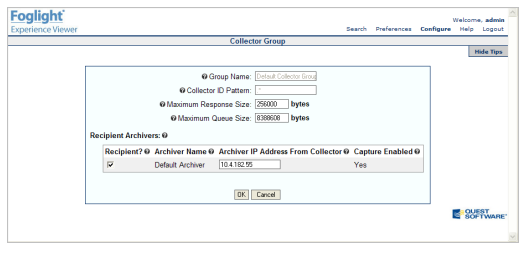
Configure the *Collector Group* in order for HTTP traffic to be transferred to the Archiver. Click the **Edit** icon for the Default Collector Group to display its configuration page. The *Collector Group* page appears.

Step 12: Configure Session Identification

On the FxM menu bar, click **Configure > Monitoring > User Sessions**. The *User Sessions* page appears.

Enable the cookies used by your Web applications by entering their names in the *Session Identification Variables* field, and click **Add**. Under *Options*, set the *Sessionizing mode* to *by individual hit*, and click **Apply**.

Step 16: Configure the FxV Archiver IP Address



In the *Collector Group* page, assign the private IP address that was designated for the Archiver in the Connect section. Enter the *Archiver IP Address From Collector*, then click **OK**.

From this point forward, the FxV appliance should be receiving HTTP traffic through a private channel from the Collector (FxM).

Step 13: Configure Capture of Non-Standard Ports

On the FxM menu bar, click **Configure > Monitoring > URLs**. The *URLs* page appears. Click **Advanced Options** in the *Advanced Configurations* section.

In the *URLs: Advanced Options page*, select the *Include ports when analyzing URLs* check box, when using non-standard ports (other than 80/443).

Log out of the FxM browser interface, by clicking **Logout**.

Step 17: Perform Final IT Activities

The final IT activities consist of several procedures, which must be executed in the following order:

- Configure the FxV appliance passwords for setup and support users (via the FxV setup menu).
- Configure the FxV user account passwords for admin and guest users (via the FxV browser interface).
- Disable SSH access to FxV (if not performing remote administration).
- Upgrade FxV appliance software (if the appliance is not using the latest release).